

A<sup>2</sup> a blocked crosslinking agent,  
wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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15. (Amended) A marking composition, comprising:  
a polymer first material comprising silicon;  
a second material capable of extending polymeric chains of the first material; and  
an optical tag,  
wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

A<sup>3</sup>  
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B<sup>5</sup> 7  
16. (Amended) A marking composition, comprising:  
a polymer silicone resin; and  
a blocked crosslinking agent capable of crosslinking with the resin,  
wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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A<sup>4</sup>  
26. (Amended) The composition of claim 16, comprising  
about 10 to about 90 percent of the resin; and  
about 0.1 to about 9 percent of the crosslinking agent.

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A<sup>5</sup>  
35. (Amended) An article, comprising:  
a substrate; and  
a marking composition on the substrate, the composition comprising:  
a polymer first material comprising silicon; and  
a second material capable of extending polymeric chains of the first material,  
wherein the first material comprises a phenyl methyl silicone resin and the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1, and  
the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

Q6 43. (Amended) The article of claim 35, wherein the composition further comprises a crosslinking agent.

Q7 45. (Amended) An article, comprising:  
a substrate; and  
a marking composition on the substrate, the composition comprising  
a polymer first material comprising silicon;  
a second material capable of extending polymeric chains of the first material; and  
a blocked crosslinking agent,  
wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

Q8 47. (Amended) The article of claim 35, wherein the composition further comprises a catalyst.

Q9 49. (Amended) An article, comprising:  
a substrate; and  
a marking composition on the substrate, the composition comprising  
a polymer first material comprising silicon;  
a second material capable of extending polymeric chains of the first material; and  
an optical tag,  
wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

Please add claims 52-88.

Q10 52. (New) The composition of claim 11, wherein the second material is capable of crosslinking with the first material.

53. (New) The composition of claim 11, wherein the second material comprises a polyol.

54. (New) The composition of claim 11, wherein the second material is selected from a group consisting of a diol and a triol.

55. (New) The composition of claim 11, wherein the first material comprises a silicone resin.

ad 56. (New) The composition of claim 11, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.

57. (New) The composition of claim 11, wherein the first material comprises a phenyl methyl silicone resin.

58. (New) The composition of claim 57, wherein the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.

59. (New) The composition of claim 11, further comprising a catalyst.

60. (New) The composition of claim 59, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst and a Lewis acid.

61. (New) The composition of claim 15, wherein the second material is capable of crosslinking with the first material.

62. (New) The composition of claim 15, wherein the second material comprises a polyol.

63. (New) The composition of claim 15, wherein the second material is selected from a group consisting of a diol and a triol.

64. (New) The composition of claim 15, wherein the first material comprises a silicone resin.

65. (New) The composition of claim 15, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.

66. (New) The composition of claim 15, wherein the first material comprises a phenyl methyl silicone resin.

67. (New) The composition of claim 66, wherein the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.

68. (New) The composition of claim 15, further comprising a crosslinking agent.

69. (New) The composition of claim 68, wherein the crosslinking agent comprises a silane.

70. (New) The composition of claim 15, further comprising a catalyst.

71. (New) The composition of claim 70, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.

72. (New) The composition of claim 45, wherein the second material is capable of crosslinking with the first material.

73. (New) The composition of claim 45, wherein the second material comprises a polyol.

74. (New) The composition of claim 45, wherein the second material is selected from a group consisting of a diol and a triol.

75. (New) The composition of claim 45, wherein the first material comprises a silicone resin.

76. (New) The composition of claim 45, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.

77. (New) The composition of claim 45, wherein the first material comprises a phenyl methyl silicone resin.

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78. (New) The composition of claim 77, wherein the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.

79. (New) The composition of claim 45 further comprising a catalyst.

80. (New) The composition of claim 79, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst and a Lewis acid.

81. (New) A marking composition, comprising:  
a polymer first material comprising a phenyl methyl silicone resin, the weight ratio of phenyl to methyl groups being between about 0.4:1 and 2.1:1; and  
a crosslinking agent,  
wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

82. (New) The composition of claim 81, wherein the crosslinking agent comprises a silane.

83. (New) The composition of claim 81, further comprising a blocked crosslinking agent.

84. (New) The composition of claim 83, wherein the blocked crosslinking agent comprises a carbamate.

85. (New) The composition of claim 81, further comprising a catalyst.

86. (New) The composition of claim 85, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.

87. (New) The composition of claim 15, wherein the optical tag comprises 2,2'-(2,5-thiophenediyl)bis[5-tert-butylbenzoxazole].

88. (New) The ~~article~~ of claims 49, wherein the the optical tag comprises 2,2'-(2,5-thiophenediyl)bis[5-tert-butylbenzoxazole].

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